

Indian Institute of Technology Indore

List of PhD students completed the prescribed requirements for the award of degree in the 10th Convocation-2022

S.No.	Roll No.	Department	Name	PhD Thesis Title [Thesis supervisor(s)]
1	1701151006	Physics	Komal Mulchandani	Incorporating Hydrogen and Tungsten in Structurally Oriented Vo ₂ Thin Films, and The Resultant Effects on Physical Properties (Prof. Krushna Mavani)
2	1501151006	Physics	Anil Kumar	Synchronization and phase transition on multiplex networks (Prof. Sarika Jalan)
3	1501151007	Physics	Sujata	Exploring New Physics with Astrophysical Neutrinos at IceCube (Prof. Subhendu Rakshit)
4	1701151009	Physics	Rutuparna Rath	Event topology and multiplicity dependence of $K^*(892)^0$ production in proton+proton collisions with ALICE at the LHC and probing TeV collisions through particle production and transport properties (Dr. Raghunath Sahoo)
5	1601102014	EE	Gunjan Rajput	Hardware Implementation of an Efficient Deep Neural Network for Biomedical Applications (Dr. S.K. Vishvakarma)
6	1601202001	EE	Swati Rajput	Integrated Photonic Devices based on Silicon-ITO Heterojunction for Optical Modulation and Detection (Dr. Mukesh Kumar)
7	1501271008	BSBE	Gaurav Pandey	Alginate based ratio-metric biosensors for environmental monitoring (Dr. Abhijeet Joshi)
8	1801204005	CE	Saket Dubey	Assessment of hazard associated with mass movements in the Himalayan region (Dr. Manish Kumar Goyal and Dr. Nitin Joshi (IIT Jammu))
9	1801201006	CSE	Preeti Jha	Design of Scalable Fuzzy Clustering Algorithms and its Application to Huge Genomics Data (Dr. Aruna Tiwari)
10	1701205008	MEMS	Chinthakuntla Mahendar	Molecular engineering to fabricate Li ⁺ -enriched multi-stimuli responsive conducting Metallogels (Dr. Mrigendra Dubey)
11	1701105005	MEMS	Digvijay Singh	Study on Microstructure and Properties of Surface Mechanical Attrition Treated Gradient Nanostructured Alloys (Dr. Santosh Hosmani)
12	1501171001	BSBE	Ritudhwaj Tiwari	Host factors associated with RNA virus pathogenesis: investigating the role of Tetherin in viral replication (Dr. Debassi Nayak)
13	1501231001	Chemistry	Soumya Kanti De	Reevaluating the membrane organization, phase behaviour, aggregation, and fusion of the model lipid membranes under different external influences (Dr. Anjan Chakraborty)
14	1701102003	EE	Vipin Gupta	FOURIER-BESSEL DOMAIN BASED NEW METHODS FOR AUTOMATED CLASSIFICATION OF EEG SIGNALS (Prof. Ram Bilas Pachori)
15	1801204003	CE	Vikas Poonia	Droughts: Occurrence, evolution and impacts over India (Dr. Manish Kumar Goyal)
16	1801121009	AASE	Sanmoy Bandyopadhyay	Fuzzy Based Approach For Detection Of Object In Space-Based Observation (Dr. Abhirup Datta and Dr. Saurabh Das)
17	1501131017	Chemistry	Abhiram Panigrahi	Fluorescent Organic Nanoaggregates with Aggregation Induced Emission for Sensing and Antibacterial Applications (Dr. Tridib Kumar Sarma)
18	1601102003	EE	Arijit Datta	Design of Low Complexity Detection Algorithms for Uplink Massive MIMO Systems (Prof. Vimal Bhatia)
19	1701205003	MEMS	Kulkarni Achyuth Rao	Enhancing the Mechanical and Tribological Properties of Aluminum (3XX.X) Alloys Through Alloying Addition and Laser-Assisted Surface Modification
20	1501271004	BSBE	Nirali Pandya	Therapeutic approach to target Cancer via interaction of small molecules with G-quadruplex structure (Dr. Amit Kumar)
21	1601231007	Chemistry	Mahendra Kumar Awasthi	Design and Development of Efficient Catalysts for Hydrogen Production (Dr. Sanjay Kumar Singh)
22	1501171006	BSBE	Akanksha Tiwari	Angular Disparity and Dimensionality in Mental Rotation: Characteristics of Saccadic Eye Movement and Electroencephalogram (Prof. Ram Bilas Pachori and Dr. Sanjaram PK)
23	1601151003	Physics	Ruhul Amin	Enhancement of multiferroic and piezoelectric properties in A and B site modified BaTiO ₃ (Dr. Somaditya Sen)
24	1701202001	EE	Nidhi Yadav	Investigations on Conducting Polymer Coating Strategy Towards Development of High Sensitivity Organic Phototransistors (Dr. Vipul Singh)
25	1701105007	MEMS	Sushmita Dwivedi	Perovskite Structured Lead-free Materials for Dielectric and Piezoelectric Applications (Dr. Sunil Kumar)
26	1601202004	EE	Sandesh Jain	RKHS BASED ADAPTIVE SIGNAL PROCESSING ALGORITHMS FOR VISIBLE LIGHT COMMUNICATION (Prof. Vimal Bhatia)
27	1701105004	MEMS	Tanvi Pareek	Investigations into the NASICON-based Materials for Solid Electrolyte Applications (Dr. Sunil Kumar)

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S.No.	Roll No.	Department	Name	PhD Thesis Title [Thesis supervisor(s)]
28	1701203003	ME	S. Jayachandran	Development of NiTi Shape Memory Alloy bimorph towards energy harvesting and micro-mechatronics applications (Prof. I. A. Palani)
29	1701131007	Chemistry	Shyama Charan Mandal	Mechanistic Investigations of CO ₂ Hydrogenation Reactions Using Homogeneous/Heterogeneous Catalysts (Prof. Biswarup Pathak)
30	1801103004	ME	Anuj Kumar	Phase Change Material Based Heat Sink for Thermal Management of Electronic Devices (Dr. Santosh Kumar Sahu)
31	1801201004	CSE	Mahendra Rathor	Hardware (IP) Security of DSP and Multimedia Applications (Dr. Anirban Sengupta)
32	1701103007	ME	Vishal Kharka	Investigations on Effects of Lubrication Environments on Performance of Spur Gear Hobbing (Prof. Neelesh K. Jain and Prof. Kapil Gupta)
33	1701131005	Chemistry	Akhil S. Nair	Developing Computational Strategies for Platinum Nanocatalyst (Prof. Biswarup Pathak)
34	1601203001	ME	Pravin Kumar	Modelling of Dimensional Accuracy and Surface Roughness in Micro-Plasma Transferred Arc Additive Manufacturing of Metallic Materials (Prof. Neelesh Kumar Jain)
35	1701203004	ME	Hirmukhe Sidram Sayabanna	Finite Element and Experimental Studies on Deformation Behavior of Nanoglass and Metallic Glass Structures (Dr. Indrasen Singh)
36	1601271004	BSBE	Shweta Jakhmola	Unveiling the mysterious contribution of Epstein-Barr virus and severe acute respiratory syndrome coronavirus-2 in neurological manifestations (Dr. Hemchand Jha)
37	1601231002	Chemistry	Soumyadip Patra	Development of Efficient Molecular Catalysts for Hydrogen Production from C-1 Based Liquid Organic Hydrogen Carriers (Dr. Sanjay Kumar Singh)
38	1701171012	BSBE	Sandeep Choudhary	Optical Instrumentation for fluorescent biosensors (Dr. Abhijeet Joshi)
39	1901204006	CE	Smriti Srivastava	Glaciohydrology of Himalaya-Karakoram: Functioning of glacierized catchments in Monsoon and Alpine climatic regimes (Dr. Mohd. Farooq Azam)
40	1501231003	Chemistry	Bijesh S	Design and Synthesis of β -Pyrrole Functionalized Push-Pull Porphyrins (Prof. Rajneesh Misra)
41	1601131002	Chemistry	Ekbote Anupama Vivek	Design and Synthesis of Donor-Acceptor Functionalized Stimuli-Responsive Materials (Prof. Rajneesh Misra)
42	1601131006	Chemistry	Richa Rajak	Investigation of Structural and Topological Analysis of Mixed-Metal Metal-Organic Frameworks (M-MOFs) and Their Potential Applications (Dr. Shaikh M. Mobin)
43	1601121012	AASE	Althaf A	Position and Velocity Accuracy of a Stationary Receiver using NAVIC Observables (Prof. Abhirup Datta and Prof. Hari Hablani)
44	1601121002	AASE	Madhurima Choudhury	Inference and signal extraction techniques using Artificial Neural Networks (Prof. Abhirul Datta)
45	1501261001	HSS	Juhee Singh Verma	Differential Impact of Food Price Changes on the Welfare of Farm Households in India (Prof. Pritee Sharma)
46	1901141006	Maths	Mudasir Ahmad Ganaie	Ensembles of decision tree and random vector functional link network for classification problems (Dr. M. Tanveer)
47	1807151001	Physics	Manushree Tanwar	Raman Spectromicroscopic study to understand microscopic level Physics in low dimensional semiconductor (Dr. Rajesh Kumar)
48	1501171015	BSBE	Suman Bishnoi	Bioinspired Nanoparticles for Near-Infrared Biomedical Imaging (Dr. Sharad Gupta and Dr. Debasis Nayak)
49	1501271012	BSBE	Anurag Ramsuman Mishra	RNA virus reverse genetics approach for vaccine design and understanding viral pathogenesis (Dr. Debasis Nayak)
50	150117100	BSBE	Shruti Pyasi	Seroepidemiology of Bovine Ephemeral Virus in India (Dr. Debasis Nayak)
51	1601261001	HSS	Bushra Praveen	Prediction of Impact of Climate Change on Agricultural Production through Land Suitability Analysis (Dr. Pritee Sharma)
52	1601231001	Chemistry	Dibya Yadav	Ruthenium(II)-NHC Pincer Complexes: Tuning Ancillary Ligand Effects Towards Selective Catalysts (Dr. Amrendra K. Singh)
53	1601271005	BSBE	Chanchal Sonkar	Studies on anticancer activities and anion sensing of Ruthenium-arene complexes (Prof. Suman Mukhopadhyay)
54	1701171011	BSBE	Rajarshi Roy	Glycans in Silico: Investigating Conformational Dynamics and Interactions with Proteins (Dr. Parimal Kar)